

Abstract<sup>of the Disclosure</sup>

METHOD AND APPARATUS FOR TRANSMITTING INFORMATION IN  
VARIOUS CARRIER FREQUENCIES WITH A FREQUENCY HOPPING  
METHOD

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~~The present invention is directed to a method and to an apparatus for the~~<sup>for transmitting</sup>  
~~transmission of~~ information in various carrier frequencies with a frequency hopping

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method, whereby a table with a plurality of N possible carrier frequency values  $f_x$  in  
addresses 1 through N of the table 25 is thereby offered, and whereby the N possible  
carrier frequency values are arranged in n sub-groups. A sequence of random values  
is generated. At least a part M of the N carrier frequency values  $f_x$  is read from the  
table, whereby the carrier frequency values within each sub-group are read out from  
the corresponding addresses on the basis of the generated sequence of random values  
and the sub-groups are read out in a specific sequence, whereby  $M \leq N$  applies.

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Information or, respectively, data are subsequently transmitted in carrier frequencies  
that correspond to the carrier frequency values that have been read out. The method  
and the apparatus of the present invention can be implemented, for example, in a  
mobile station and/or a base station of a mobile radiotelephone system.

~~Figure 3~~